

Mechanics, General Properties of Matter and Thermal Physics 1

1. Remembering:

- Recall and define key concepts in classical mechanics, central forces, molecular theory, and coefficients of viscosity.

2. Understanding:

- Explain the fundamental principles of Hooke's Law and elasticity.
- Understand the key concepts and laws in thermodynamics.

3. Applying:

- Apply the concepts of classical mechanics to solve problems related to central forces.
- Apply Hooke's Law to determine the elasticity of a material in different situations.
- Solve problems involving the coefficient of viscosity in fluids.

4. Analyzing:


- Analyze and interpret data related to thermal physics and molecular theory.
- Analyze the behavior of gases using the kinetic theory of gases.

5. Evaluating:

- Evaluate the relationship between temperature, pressure, and volume in thermodynamics.
- Evaluate the impact of central forces on the motion of an object.

6. Creating:

- Design experiments to test the concepts of Hooke's Law and elasticity.
- Develop models to explain the behavior of gases based on the kinetic theory of gases.

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